

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060223\
 Data File : VN078024.D
 Acq On : 02 Jun 2023 12:09
 Operator : JC\MD
 Sample : PB153165ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB153165ZHE#01

Quant Time: Jun 05 01:10:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

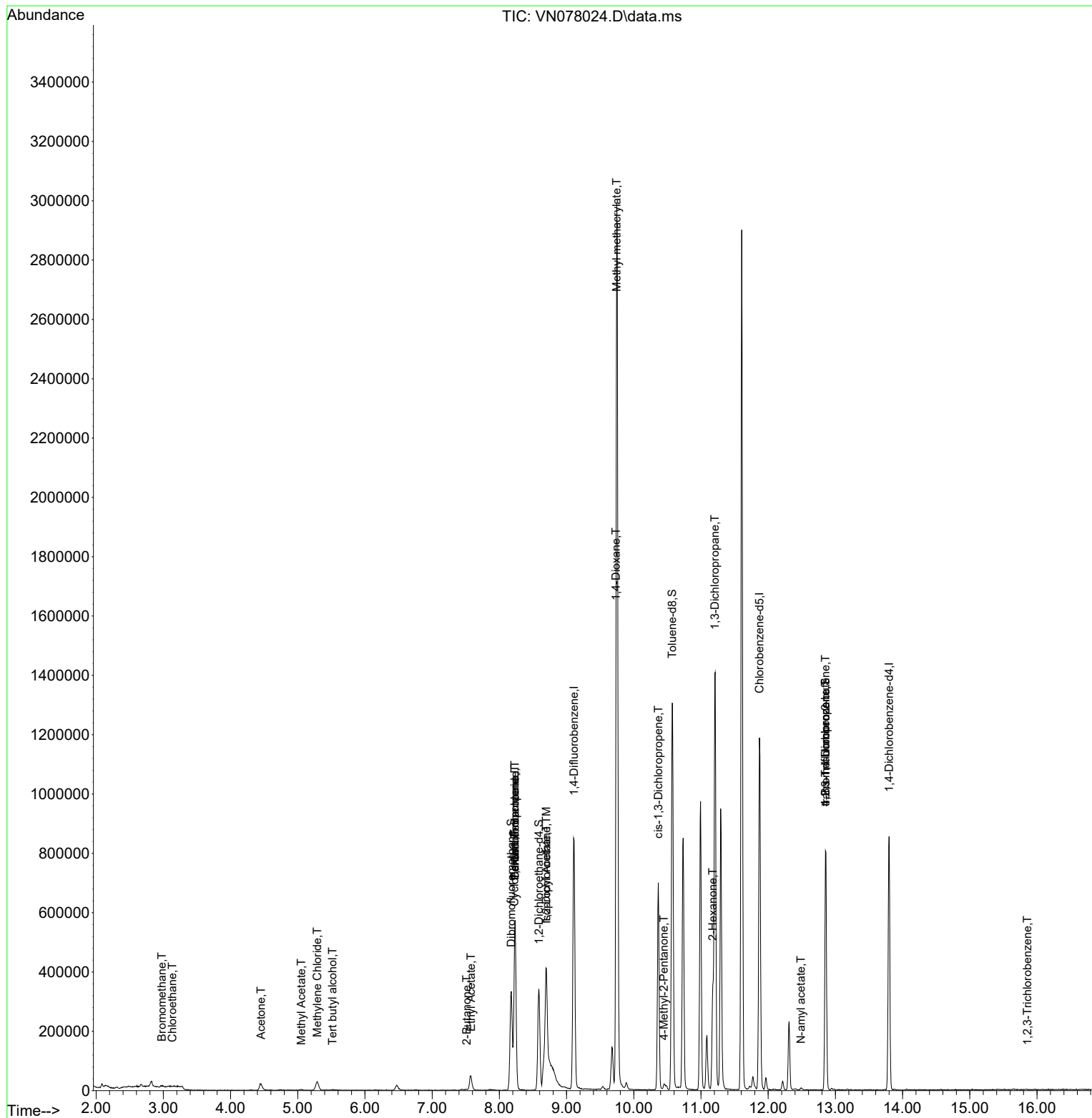
Internal Standards						
1) Pentafluorobenzene	8.229	168	411549	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	766719	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	711622	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	228420	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	283274	46.002	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.000%		
35) Dibromofluoromethane	8.177	113	243187	48.640	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.280%		
50) Toluene-d8	10.570	98	967971	50.299	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.600%		
62) 4-Bromofluorobenzene	12.853	95	294116	43.274	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	86.540%		
Target Compounds					Qvalue	
3) Chloromethane	2.377	50	1234	Below Cal	#	88
5) Bromomethane	2.977	94	2396	0.549	ug/l	87
6) Chloroethane	3.136	64	1233	0.290	ug/l #	43
11) Tert butyl alcohol	5.518	59	668	0.786	ug/l #	72
13) Acrolein	4.194	56	191	Below Cal	#	53
16) Acetone	4.453	43	39395	20.335	ug/l #	86
18) Methyl Acetate	5.053	43	2821	0.347	ug/l	89
20) Methylene Chloride	5.288	84	24296	2.959	ug/l #	89
25) 2-Butanone	7.512	43	4639	1.531	ug/l #	71
31) Cyclohexane	8.224	56	10163	1.214	ug/l #	54
36) 1,1-Dichloropropene	8.229	75	35771	4.892	ug/l #	47
37) Ethyl Acetate	7.577	43	74493	11.429	ug/l	97
38) Carbon Tetrachloride	8.229	117	46342	6.276	ug/l #	17
42) 1,2-Dichloroethane	8.700	62	3442	0.439	ug/l #	73
43) Isopropyl Acetate	8.700	43	714903	67.149	ug/l #	67
48) Methyl methacrylate	9.747	41	266927	52.881	ug/l #	29
49) 1,4-Dioxane	9.735	88	465	4.877	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	13028	2.059	ug/l	98
54) cis-1,3-Dichloropropene	10.365	75	129974	14.770	ug/l #	67
57) 1,3-Dichloropropane	11.206	76	15958	1.745	ug/l #	42
59) 2-Hexanone	11.176	43	270297	57.745	ug/l #	19
74) N-amyl acetate	12.488	43	2806	0.386	ug/l #	41
76) 1,2,3-Trichloropropane	12.853	75	155628	27.206	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	155628	86.963	ug/l #	15
96) 1,2,3-Trichlorobenzene	15.858	180	936	0.211	ug/l #	13

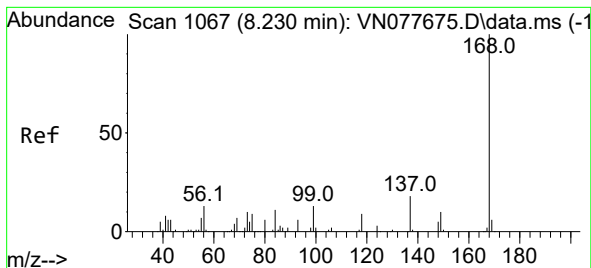
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 16 04:07:42 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 1

Delta R.T. -0.001 min

Lab File: VN078024.D

Acq: 02 Jun 2023 12:09

Instrument :

MSVOA_N

ClientSampleId :

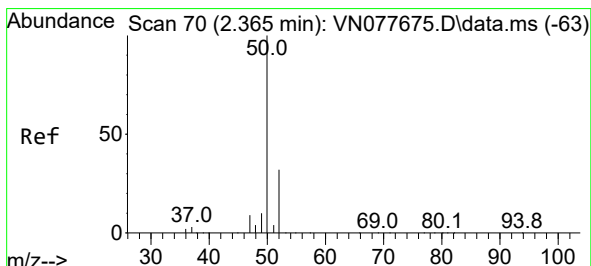
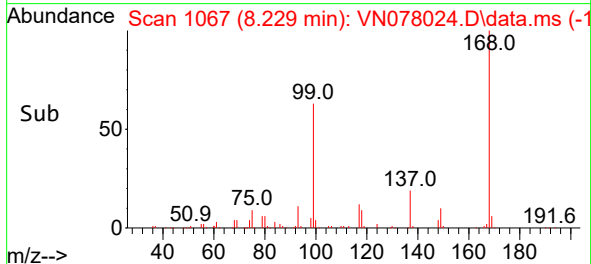
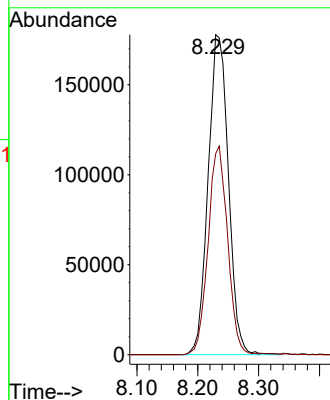
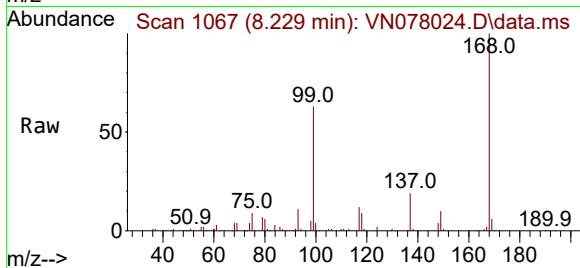
PB153165ZHE#01

Tgt Ion:168 Resp: 411549

Ion Ratio Lower Upper

168 100

99 62.9 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.377 min Scan# 72

Delta R.T. 0.012 min

Lab File: VN078024.D

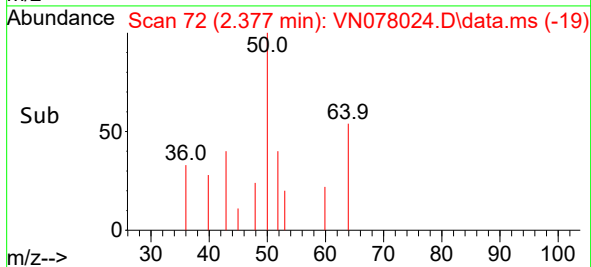
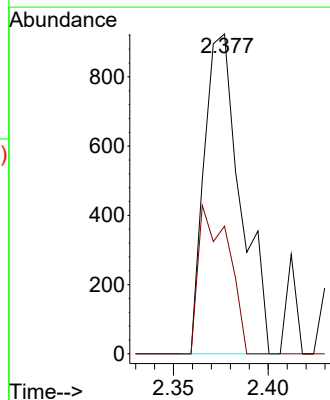
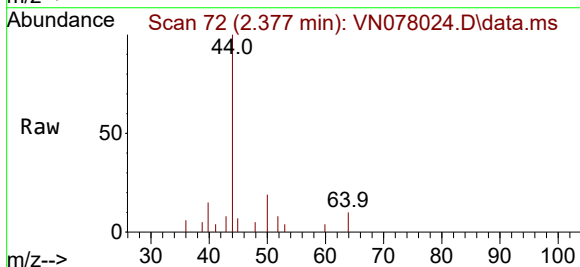
Acq: 02 Jun 2023 12:09

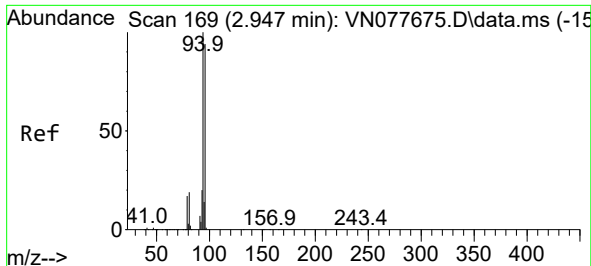
Tgt Ion: 50 Resp: 1234

Ion Ratio Lower Upper

50 100

52 39.9 26.5 39.7#





#5

Bromomethane

Concen: 0.549 ug/l

RT: 2.977 min Scan# 1

Delta R.T. 0.030 min

Lab File: VN078024.D

Acq: 02 Jun 2023 12:09

Instrument :

MSVOA_N

ClientSampleId :

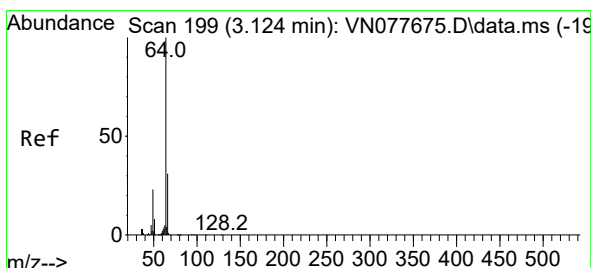
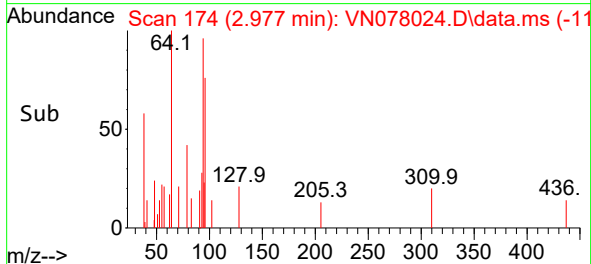
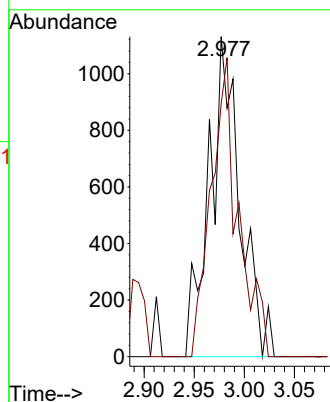
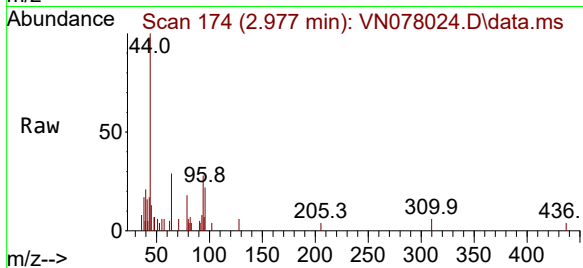
PB153165ZHE#01

Tgt Ion: 94 Resp: 2396

Ion Ratio Lower Upper

94 100

96 79.0 73.1 109.7



#6

Chloroethane

Concen: 0.290 ug/l

RT: 3.136 min Scan# 201

Delta R.T. 0.012 min

Lab File: VN078024.D

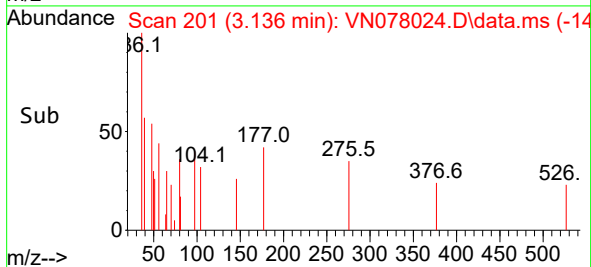
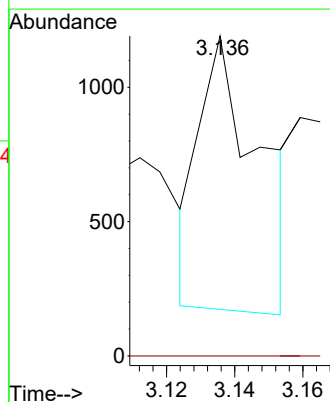
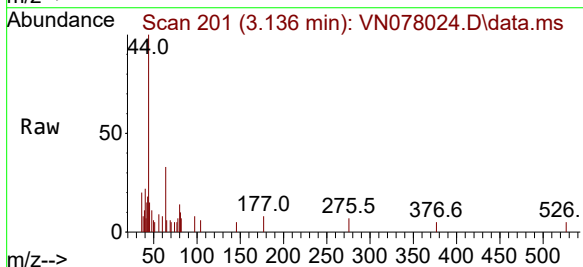
Acq: 02 Jun 2023 12:09

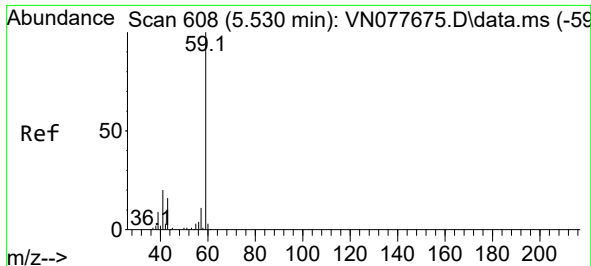
Tgt Ion: 64 Resp: 1233

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#





#11

Tert butyl alcohol

Concen: 0.786 ug/l

RT: 5.518 min Scan# 608

Delta R.T. -0.012 min

Lab File: VN078024.D

Acq: 02 Jun 2023 12:09

Instrument :

MSVOA_N

ClientSampleId :

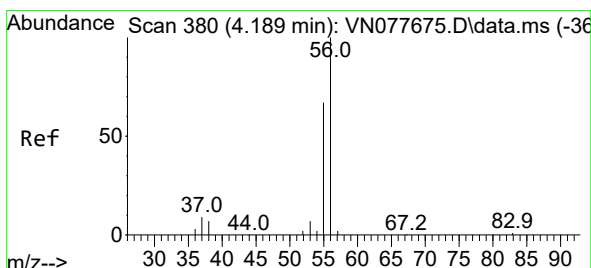
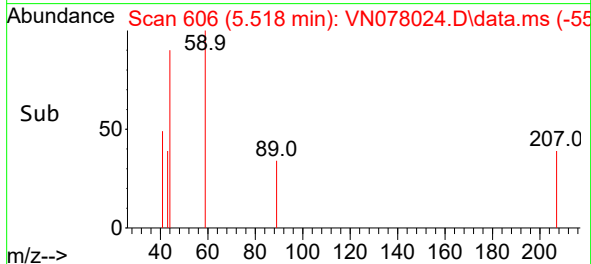
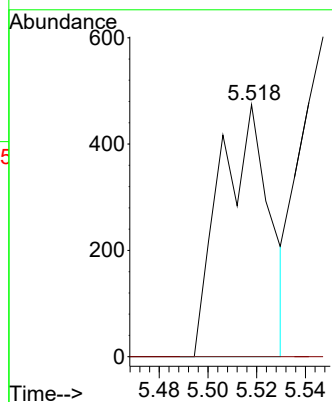
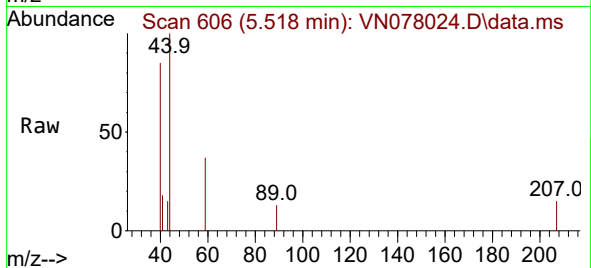
PB153165ZHE#01

Tgt Ion: 59 Resp: 668

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: Below Cal

RT: 4.194 min Scan# 381

Delta R.T. 0.005 min

Lab File: VN078024.D

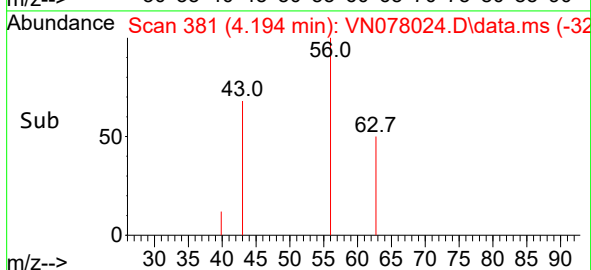
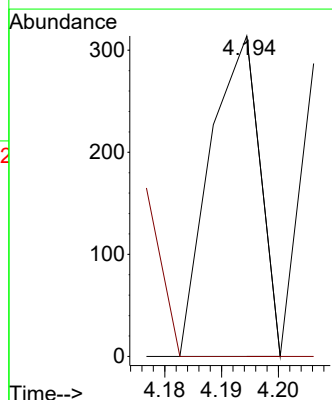
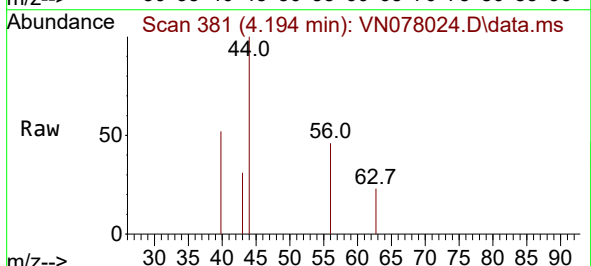
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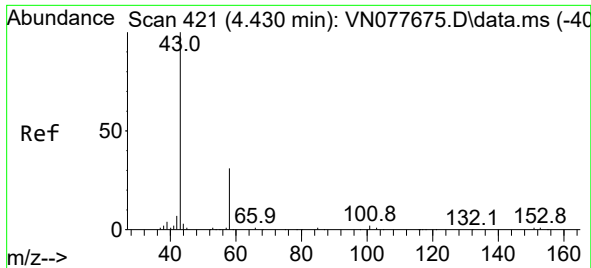
Tgt Ion: 56 Resp: 191

Ion Ratio Lower Upper

56 100

55 30.4 54.5 81.7#

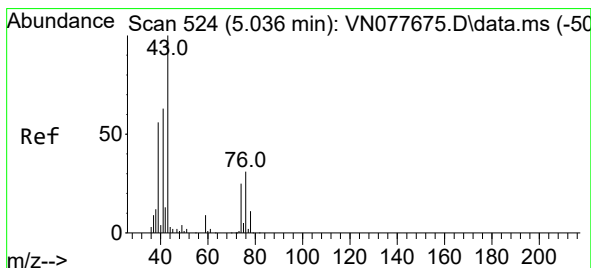
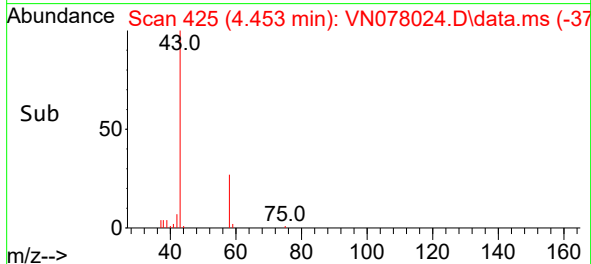
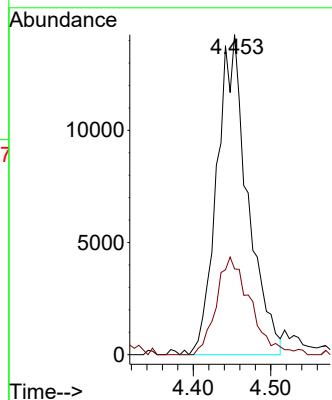
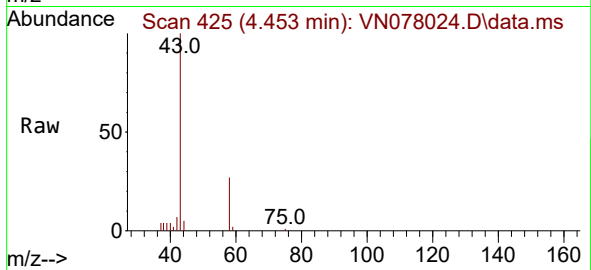




#16
Acetone
Concen: 20.335 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.023 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

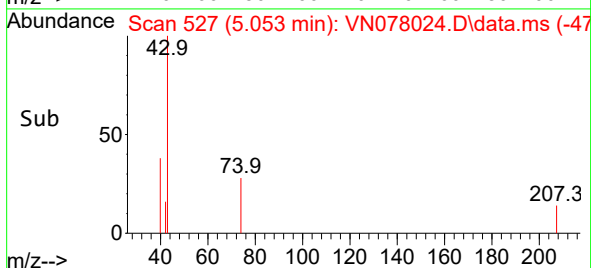
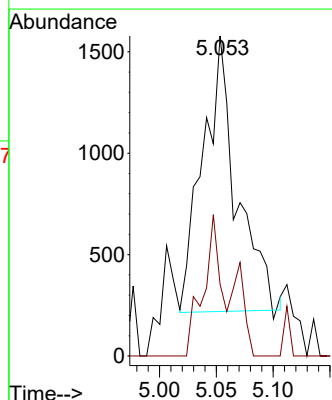
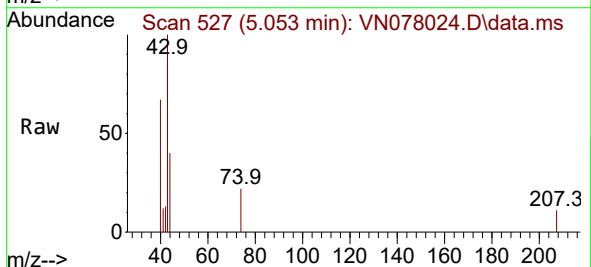
Instrument :
MSVOA_N
ClientSampleId :
PB153165ZHE#01

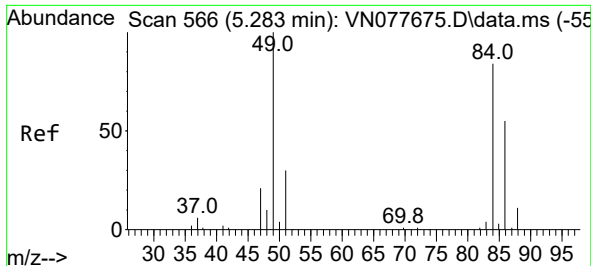
Tgt Ion: 43 Resp: 39395
Ion Ratio Lower Upper
43 100
58 26.8 28.0 42.0#



#18
Methyl Acetate
Concen: 0.347 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.017 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

Tgt Ion: 43 Resp: 2821
Ion Ratio Lower Upper
43 100
74 26.9 26.2 39.4

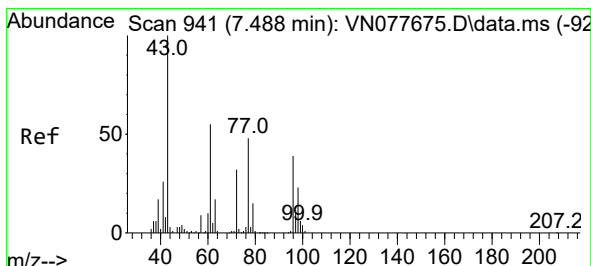
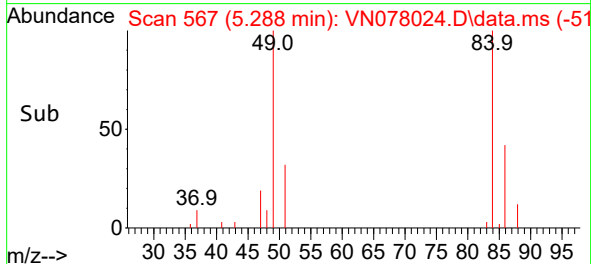
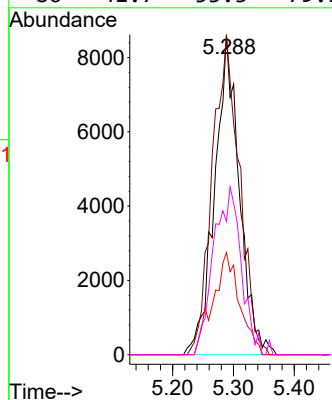
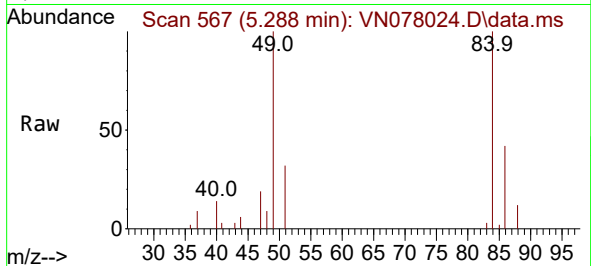




#20
Methylene Chloride
Concen: 2.959 ug/l
RT: 5.288 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

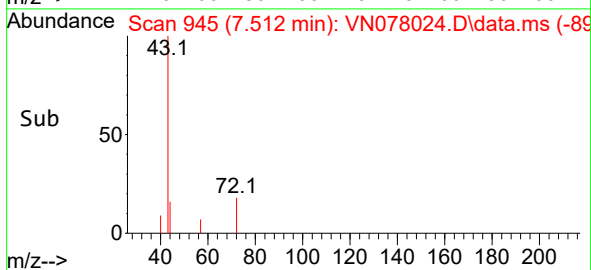
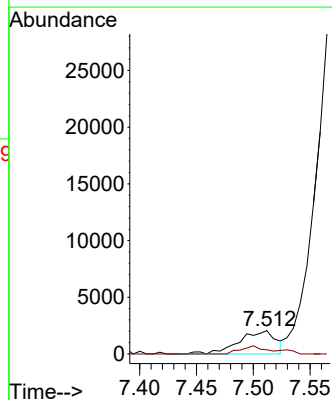
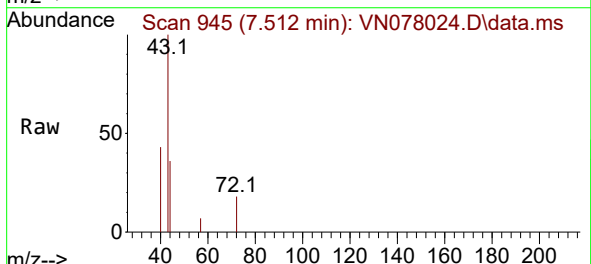
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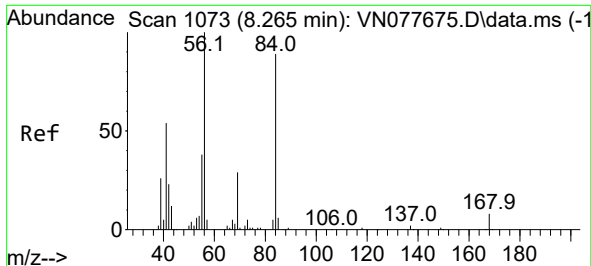
Tgt Ion:	84	Resp:	24296
Ion	Ratio	Lower	Upper
84	100		
49	100.1	79.7	119.5
51	32.0	25.2	37.8
86	41.7	53.3	79.9



#25
2-Butanone
Concen: 1.531 ug/l
RT: 7.512 min Scan# 945
Delta R.T. 0.024 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

Tgt Ion:	43	Resp:	4639
Ion	Ratio	Lower	Upper
43	100		
72	20.0	30.2	45.2

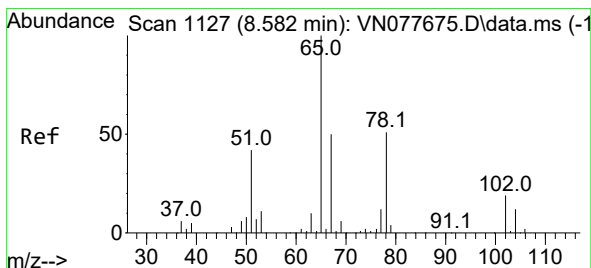
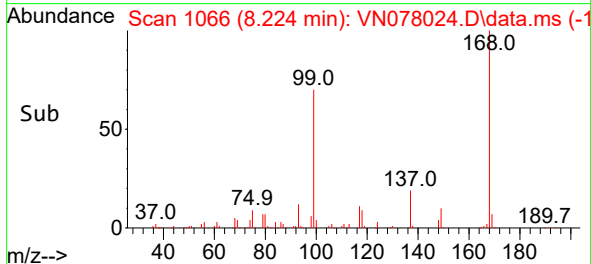
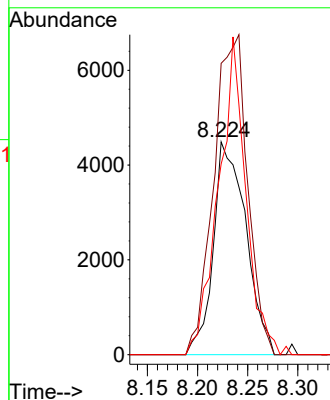
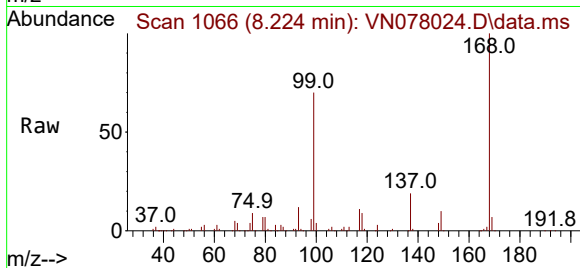




#31
Cyclohexane
Concen: 1.214 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

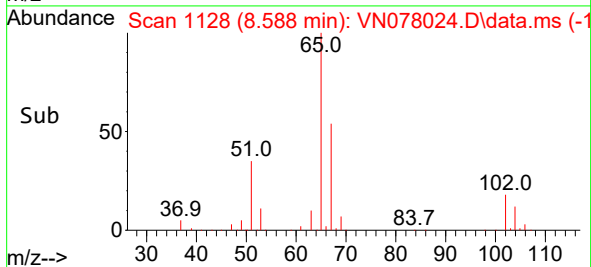
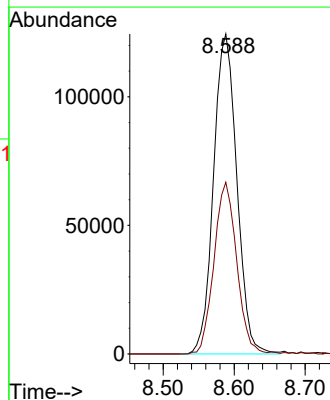
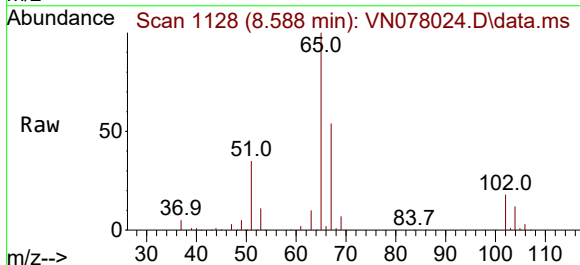
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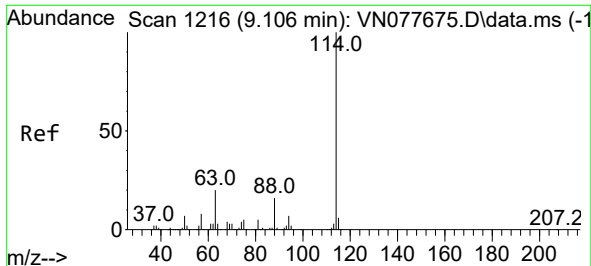
Tgt Ion: 56 Resp: 10163
Ion Ratio Lower Upper
56 100
69 136.9 26.8 40.2#
84 100.6 81.8 122.6



#33
1,2-Dichloroethane-d4
Concen: 46.002 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

Tgt Ion: 65 Resp: 283274
Ion Ratio Lower Upper
65 100
67 52.3 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN078024.D

Acq: 02 Jun 2023 12:09

Instrument :

MSVOA_N

ClientSampleId :

PB153165ZHE#01

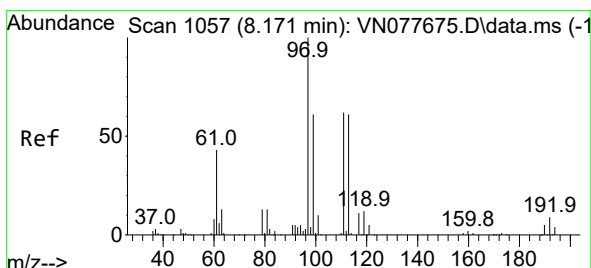
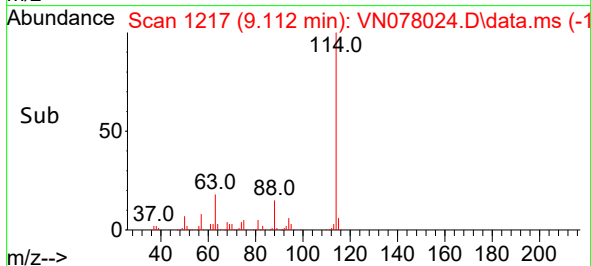
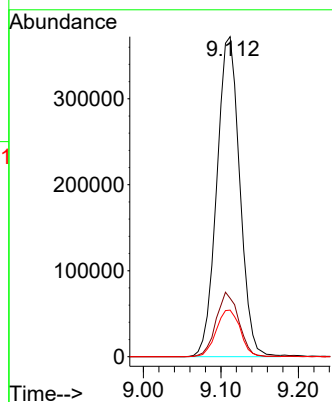
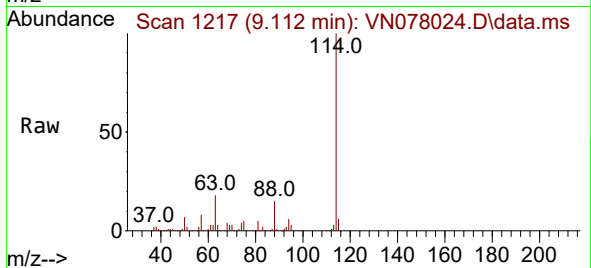
Tgt Ion:114 Resp: 766719

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.4

88 14.6 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.640 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN078024.D

Acq: 02 Jun 2023 12:09

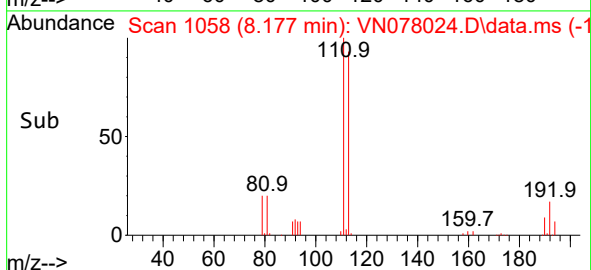
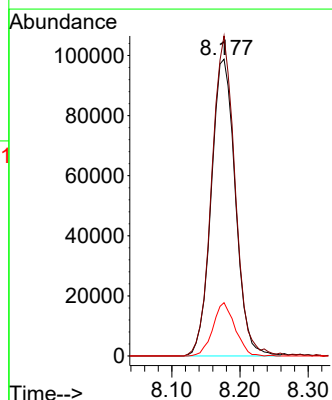
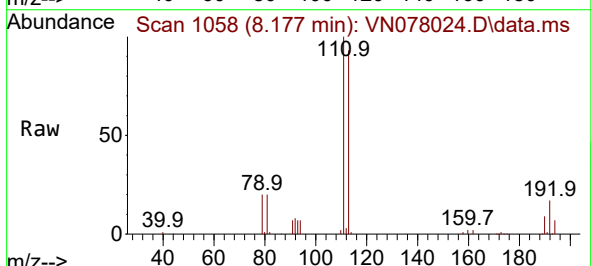
Tgt Ion:113 Resp: 243187

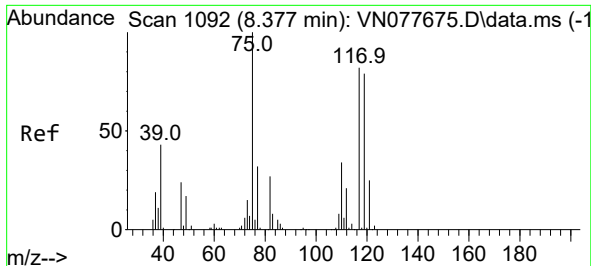
Ion Ratio Lower Upper

113 100

111 104.5 82.6 123.8

192 16.4 12.7 19.1

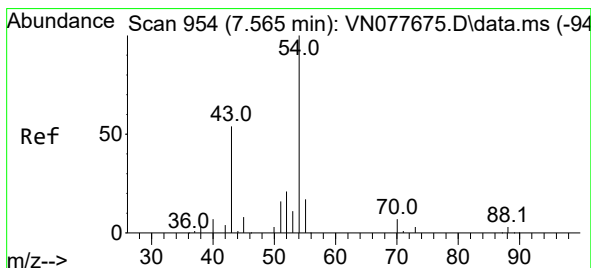
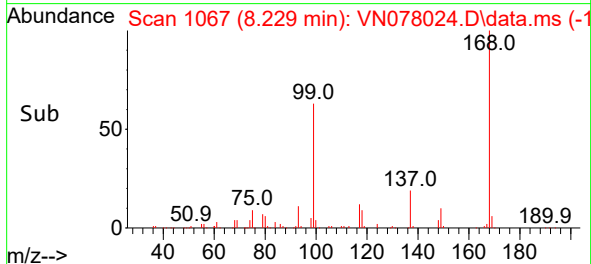
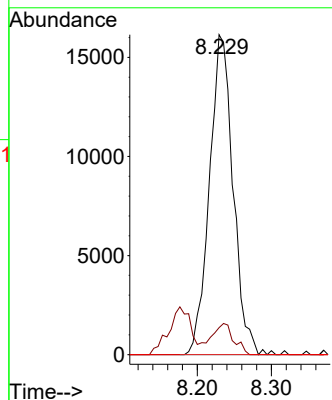
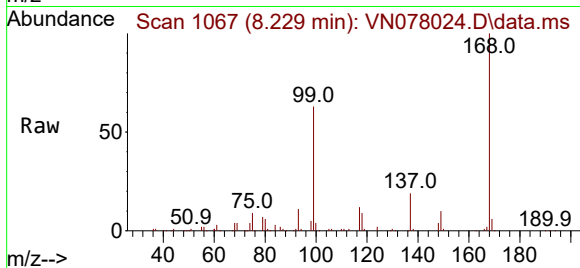




#36
1,1-Dichloropropene
Concen: 4.892 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.148 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

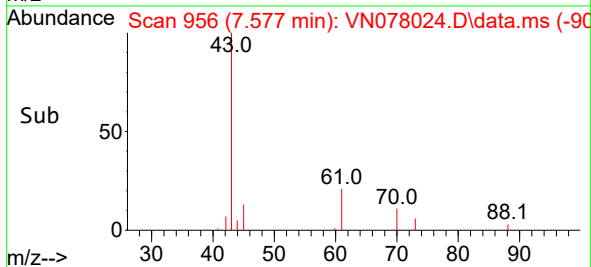
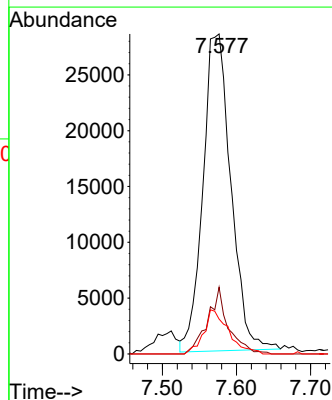
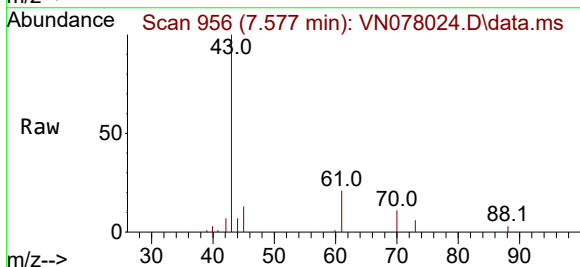
Instrument :
MSVOA_N
ClientSampleId :
PB153165ZHE#01

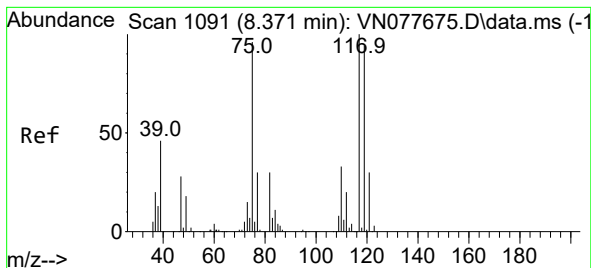
Tgt Ion: 75 Resp: 35771
Ion Ratio Lower Upper
75 100
110 8.4 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 11.429 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.012 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

Tgt Ion: 43 Resp: 74493
Ion Ratio Lower Upper
43 100
61 15.6 13.2 19.8
70 12.3 11.3 16.9





#38

Carbon Tetrachloride

Concen: 6.276 ug/l

RT: 8.229 min Scan# 1106

Delta R.T. -0.142 min

Lab File: VN078024.D

Acq: 02 Jun 2023 12:09

Instrument :

MSVOA_N

ClientSampleId :

PB153165ZHE#01

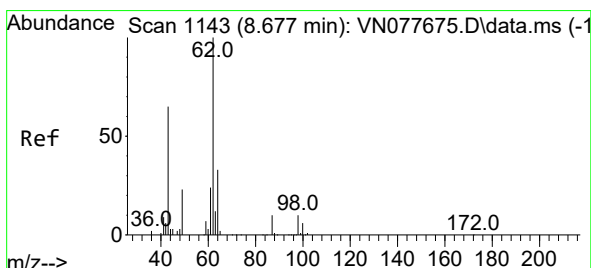
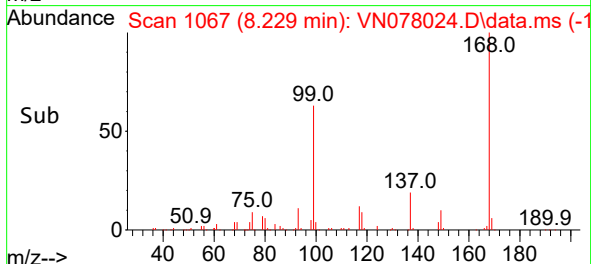
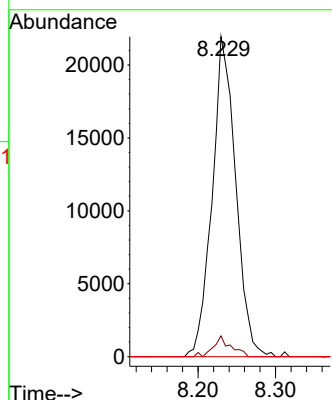
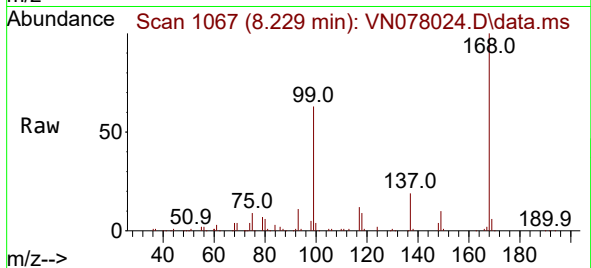
Tgt Ion:117 Resp: 46342

Ion Ratio Lower Upper

117 100

119 6.5 77.3 115.9#

121 0.0 23.3 34.9#



#42

1,2-Dichloroethane

Concen: 0.439 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.023 min

Lab File: VN078024.D

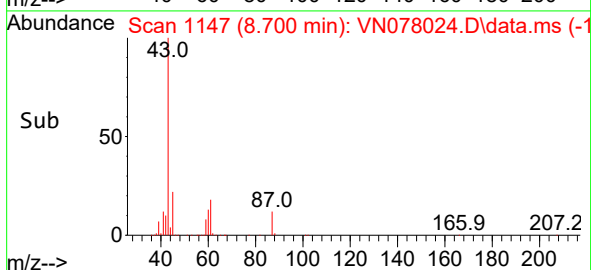
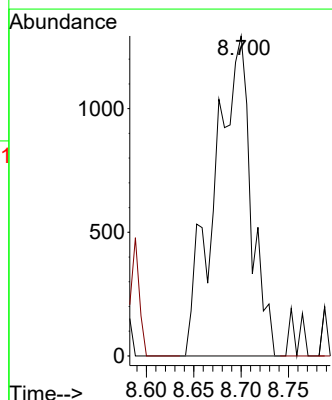
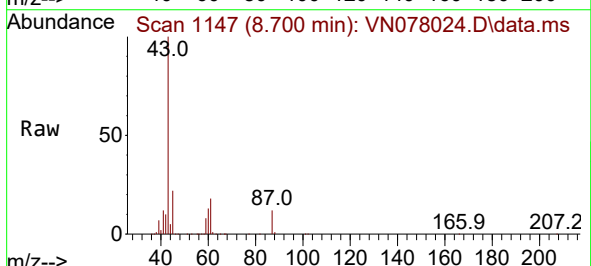
Acq: 02 Jun 2023 12:09

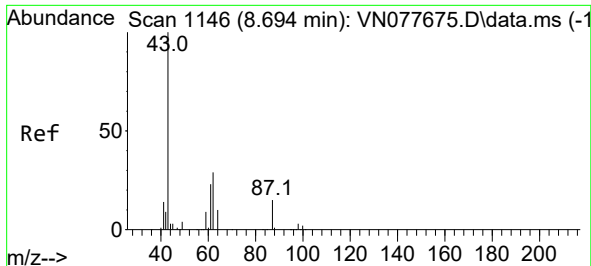
Tgt Ion: 62 Resp: 3442

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

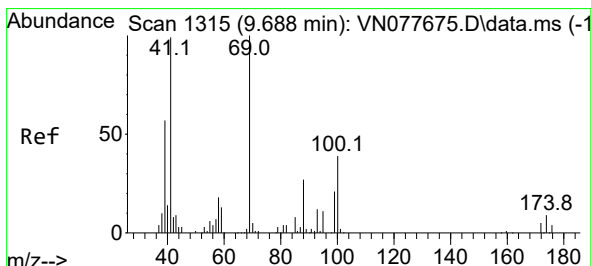
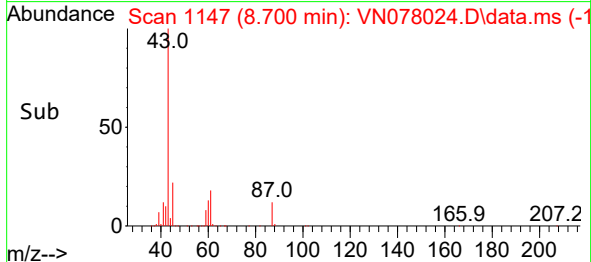
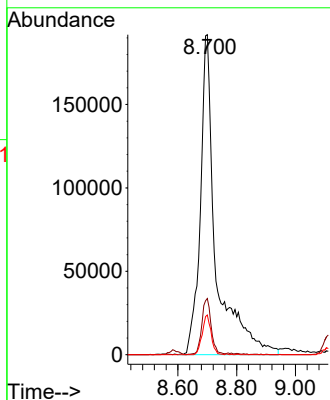
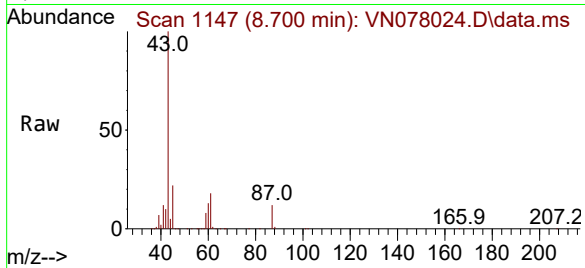




#43
Isopropyl Acetate
Concen: 67.149 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

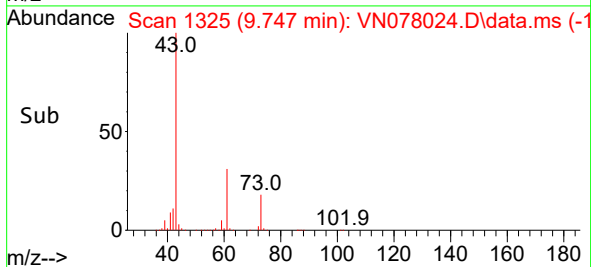
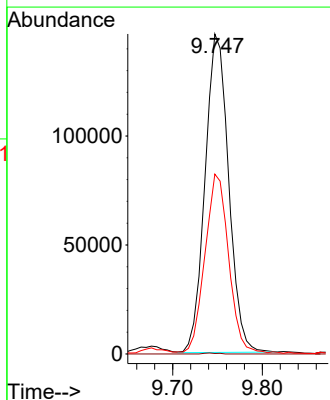
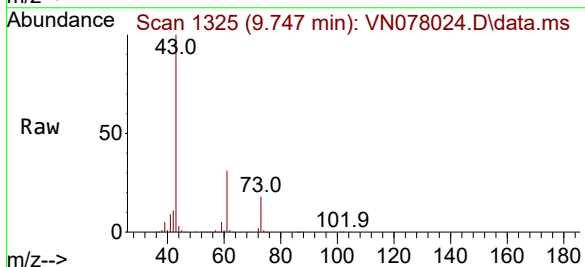
Instrument :
MSVOA_N
ClientSampleId :
PB153165ZHE#01

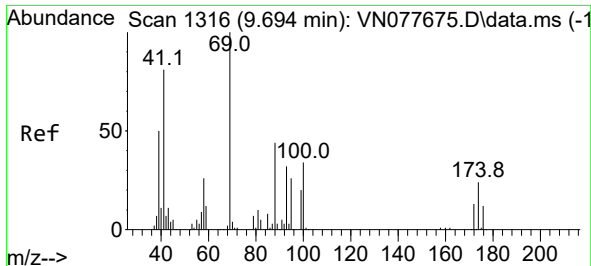
Tgt Ion: 43 Resp: 714903
Ion Ratio Lower Upper
43 100
61 10.5 24.7 37.1#
87 7.0 14.6 21.8#



#48
Methyl methacrylate
Concen: 52.881 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.059 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

Tgt Ion: 41 Resp: 266927
Ion Ratio Lower Upper
41 100
69 0.2 90.4 135.6#
39 56.8 54.6 81.8





#49

1,4-Dioxane

Concen: 4.877 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN078024.D

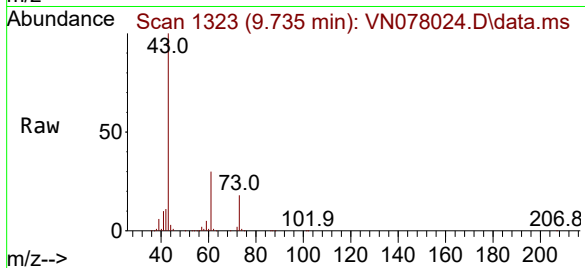
Acq: 02 Jun 2023 12:09

Instrument :

MSVOA_N

ClientSampleId :

PB153165ZHE#01



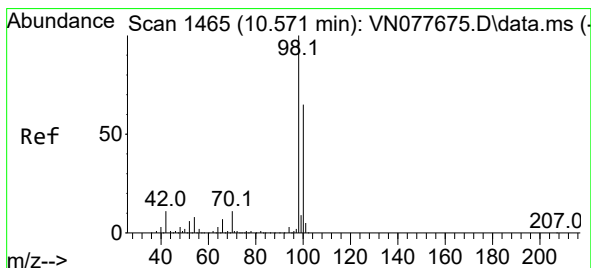
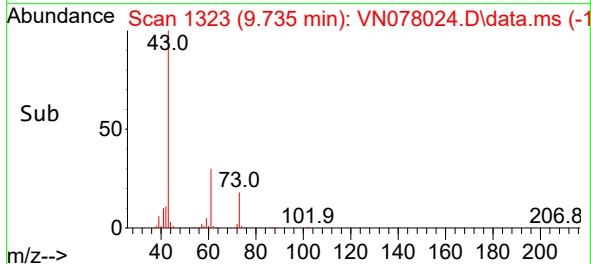
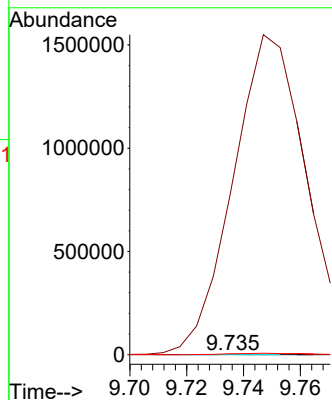
Tgt Ion: 88 Resp: 465

Ion Ratio Lower Upper

88 100

43 610633.5 17.0 25.6#

58 2861.5 47.0 70.4#



#50

Toluene-d8

Concen: 50.299 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.001 min

Lab File: VN078024.D

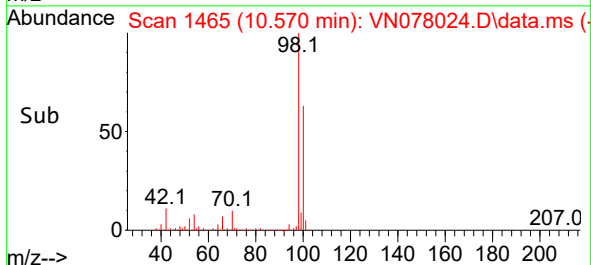
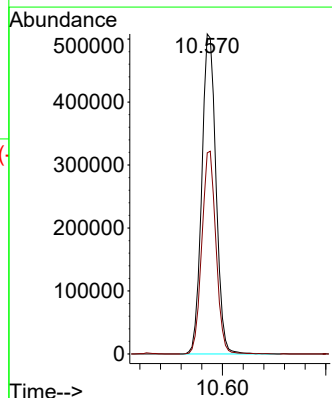
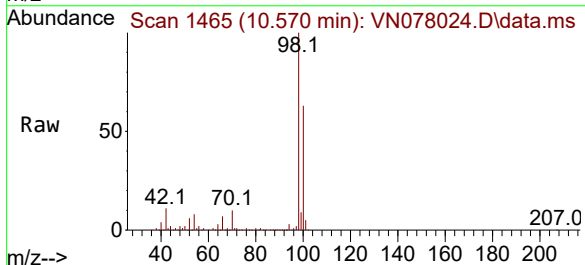
Acq: 02 Jun 2023 12:09

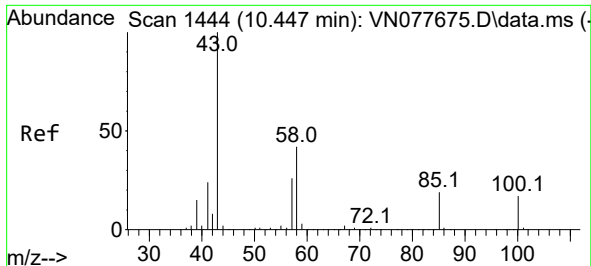
Tgt Ion: 98 Resp: 967971

Ion Ratio Lower Upper

98 100

100 63.0 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 2.059 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN078024.D

Acq: 02 Jun 2023 12:09

Instrument :

MSVOA_N

ClientSampleId :

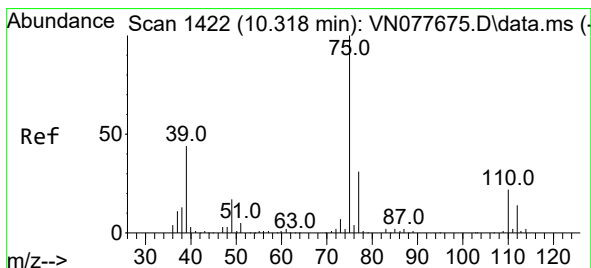
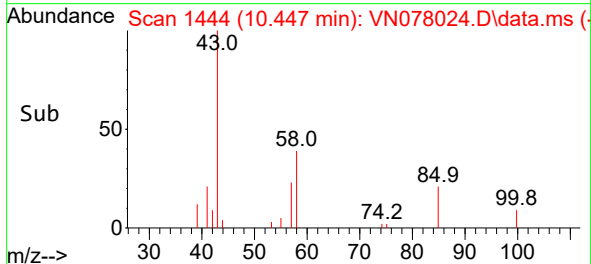
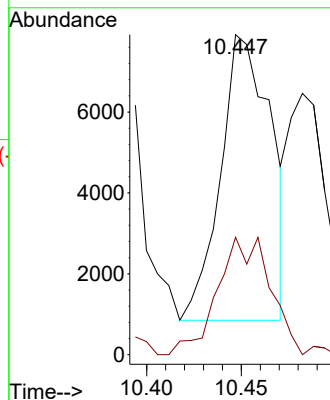
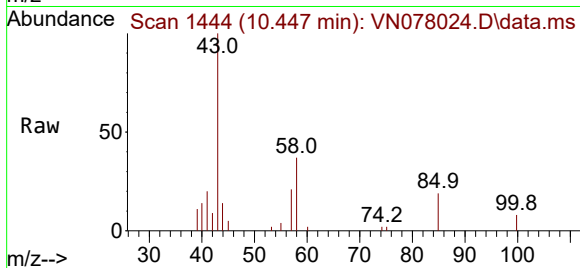
PB153165ZHE#01

Tgt Ion: 43 Resp: 13028

Ion Ratio Lower Upper

43 100

58 44.2 36.6 54.8



#54

cis-1,3-Dichloropropene

Concen: 14.770 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. 0.047 min

Lab File: VN078024.D

Acq: 02 Jun 2023 12:09

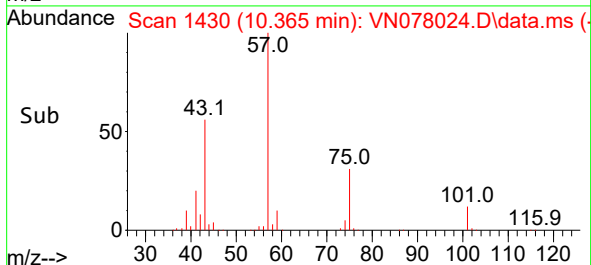
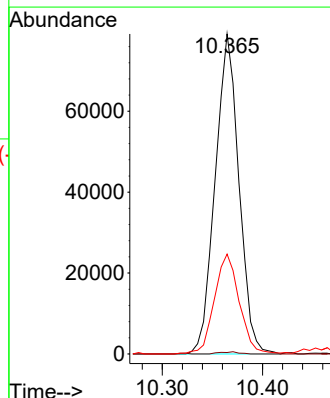
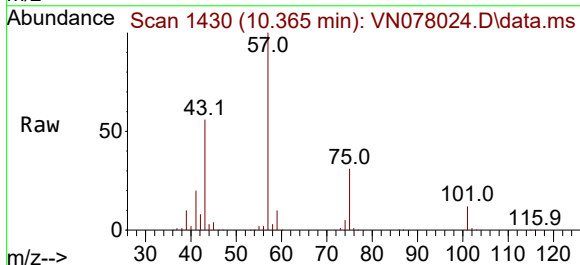
Tgt Ion: 75 Resp: 129974

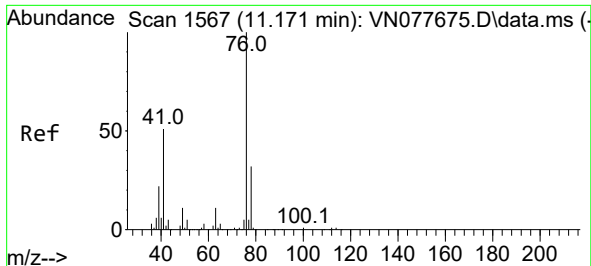
Ion Ratio Lower Upper

75 100

77 0.5 26.1 39.1#

39 30.9 31.6 47.4#





#57

1,3-Dichloropropane

Concen: 1.745 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.035 min

Lab File: VN078024.D

Acq: 02 Jun 2023 12:09

Instrument :

MSVOA_N

ClientSampleId :

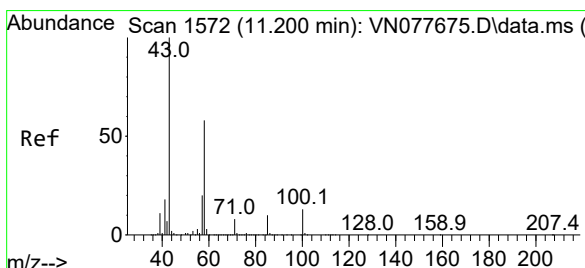
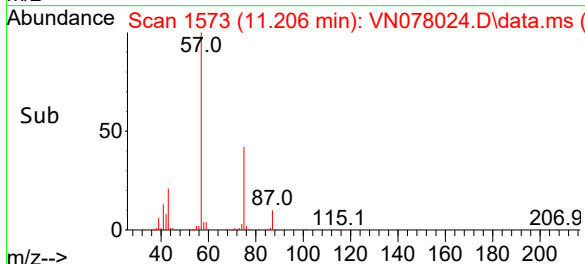
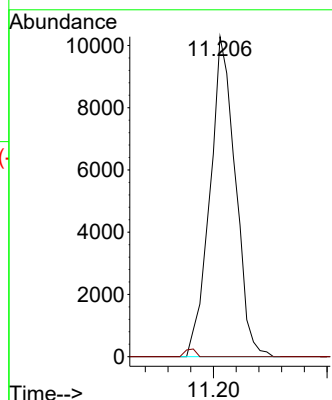
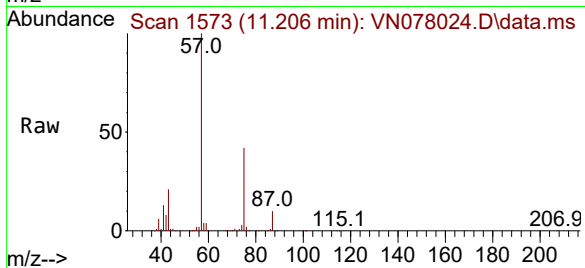
PB153165ZHE#01

Tgt Ion: 76 Resp: 15958

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 57.745 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078024.D

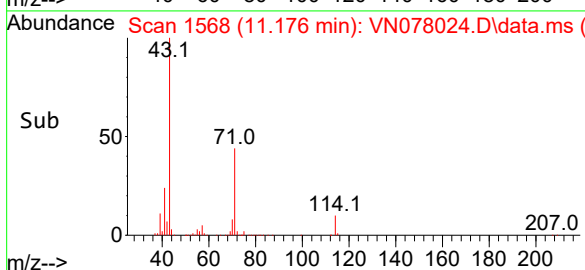
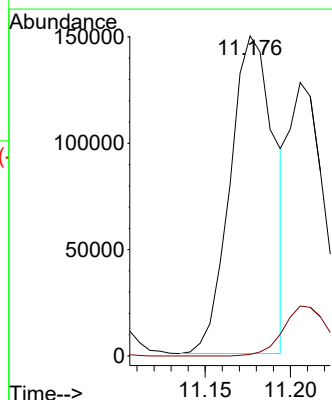
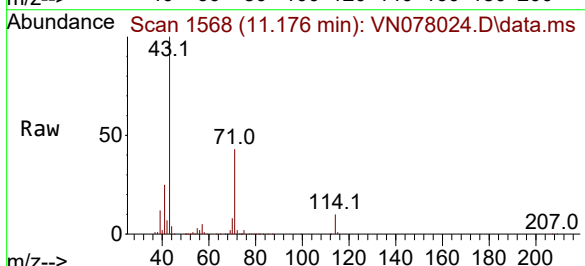
Acq: 02 Jun 2023 12:09

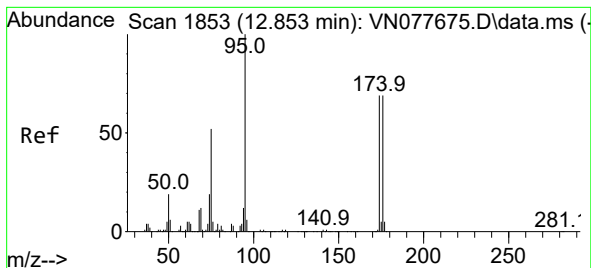
Tgt Ion: 43 Resp: 270297

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

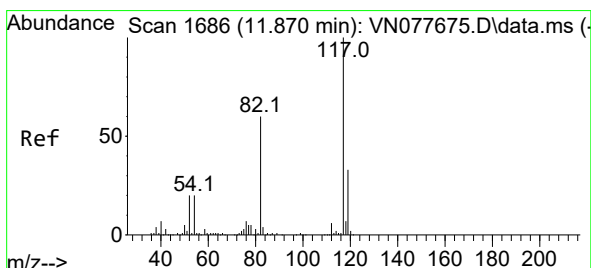
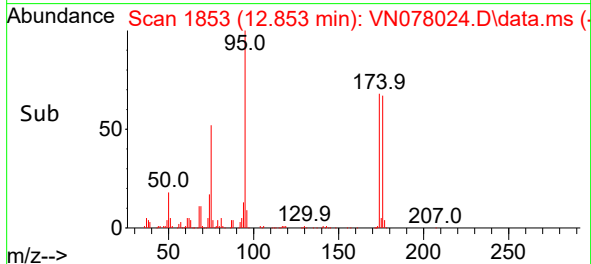
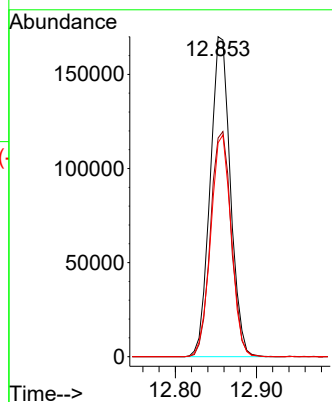
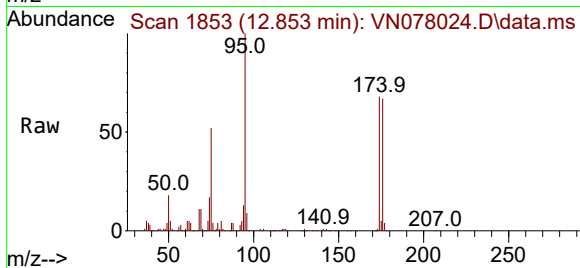




#62
4-Bromofluorobenzene
Concen: 43.274 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

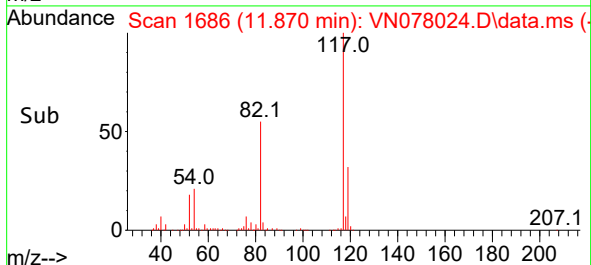
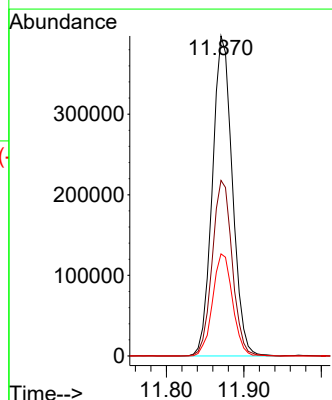
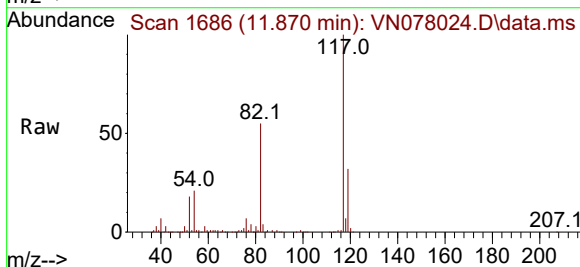
Instrument :
MSVOA_N
ClientSampleId :
PB153165ZHE#01

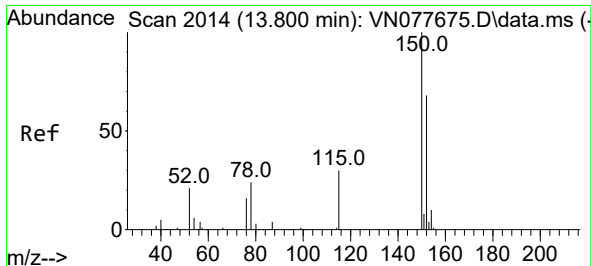
Tgt Ion: 95 Resp: 294116
Ion Ratio Lower Upper
95 100
174 72.2 0.0 143.8
176 70.1 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

Tgt Ion: 117 Resp: 711622
Ion Ratio Lower Upper
117 100
82 54.8 44.0 66.0
119 31.9 25.6 38.4

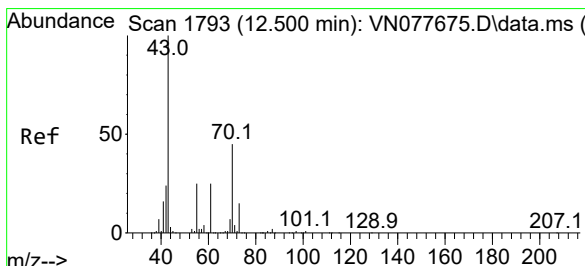
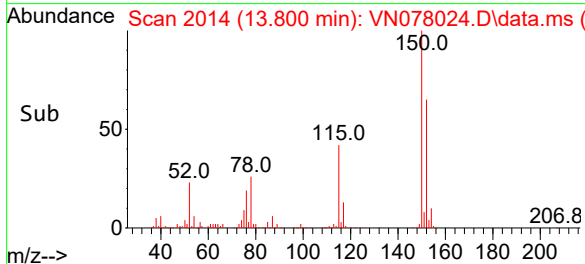
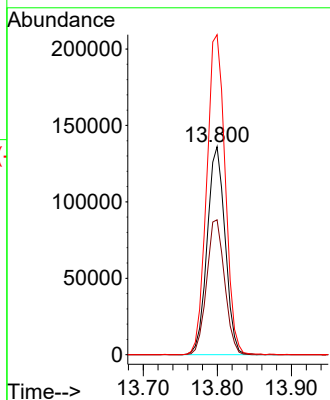
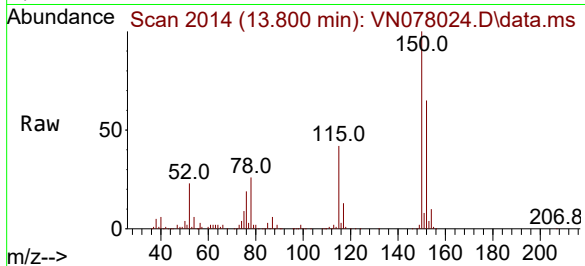




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

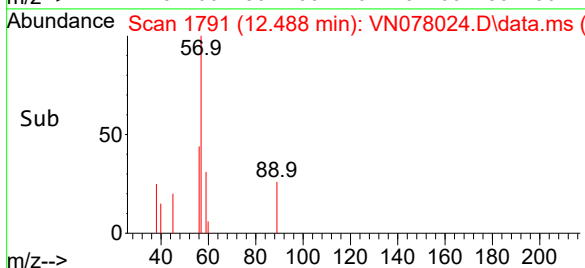
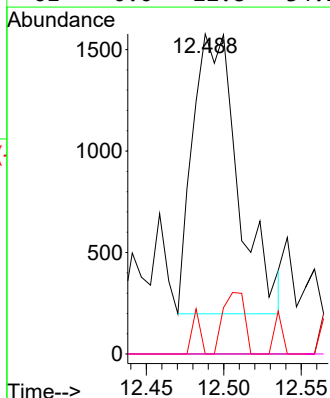
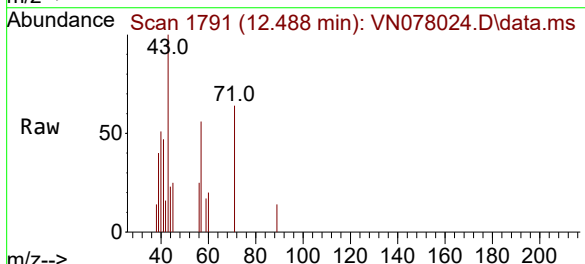
Instrument :
MSVOA_N
ClientSampleId :
PB153165ZHE#01

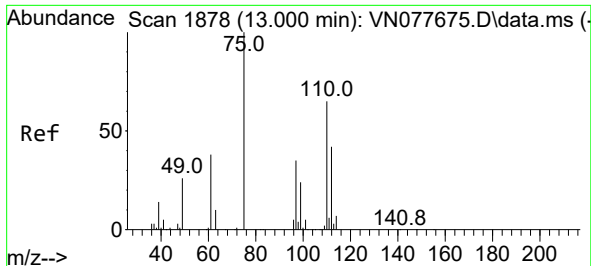
Tgt Ion:152 Resp: 228420
Ion Ratio Lower Upper
152 100
115 65.1 32.3 96.8
150 158.5 0.0 355.8



#74
N-ethyl acetate
Concen: 0.386 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

Tgt Ion: 43 Resp: 2806
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 10.4 21.4 32.0#
61 0.0 22.8 34.2#

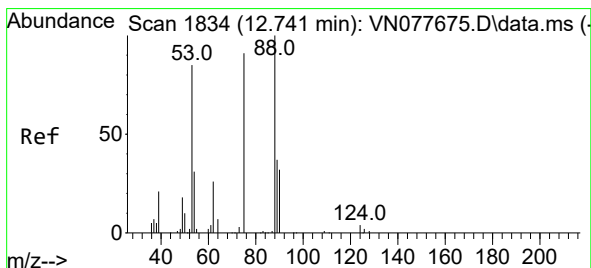
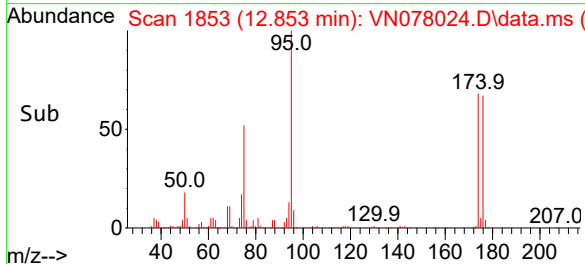
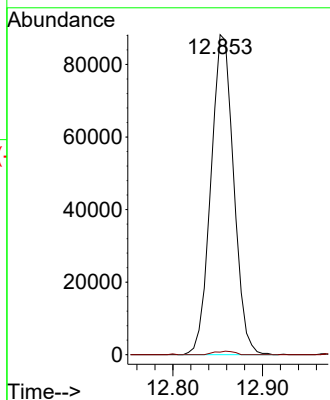
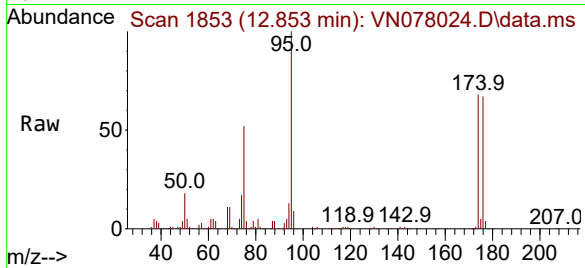




#76
1,2,3-Trichloropropane
Concen: 27.206 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

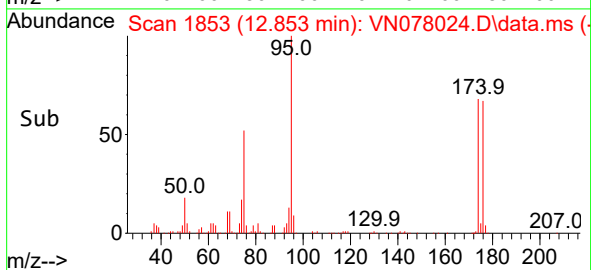
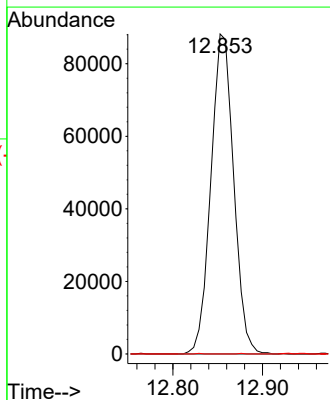
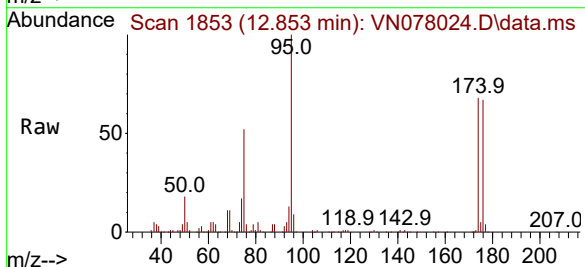
Instrument :
MSVOA_N
ClientSampleId :
PB153165ZHE#01

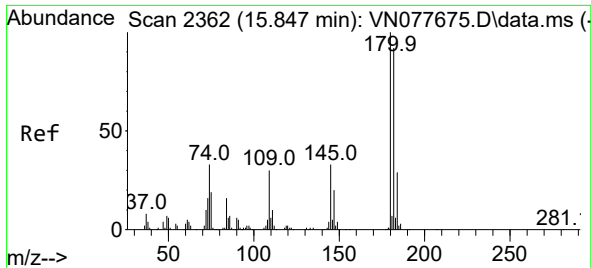
Tgt Ion: 75 Resp: 155628
Ion Ratio Lower Upper
75 100
77 1.0 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 86.963 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078024.D
Acq: 02 Jun 2023 12:09

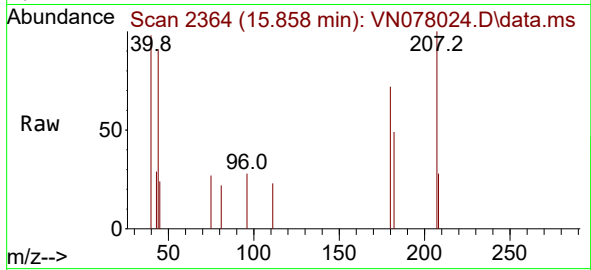
Tgt Ion: 75 Resp: 155628
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.211 ug/l
 RT: 15.858 min Scan# 21
 Delta R.T. 0.011 min
 Lab File: VN078024.D
 Acq: 02 Jun 2023 12:09

Instrument :
 MSVOA_N
 ClientSampleId :
 PB153165ZHE#01



Tgt Ion:180 Resp: 936
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.2 138.6#
 145 0.0 17.5 52.6#

